

**LO:** Local Oscillator  
**SG:** Signal Generator  
**MOD:** MODulator  
**DEM:** DEModulator  
**MIX:** MIXer  
**MUL:** MULTIplier

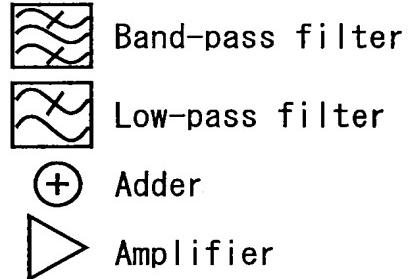


Fig. 1

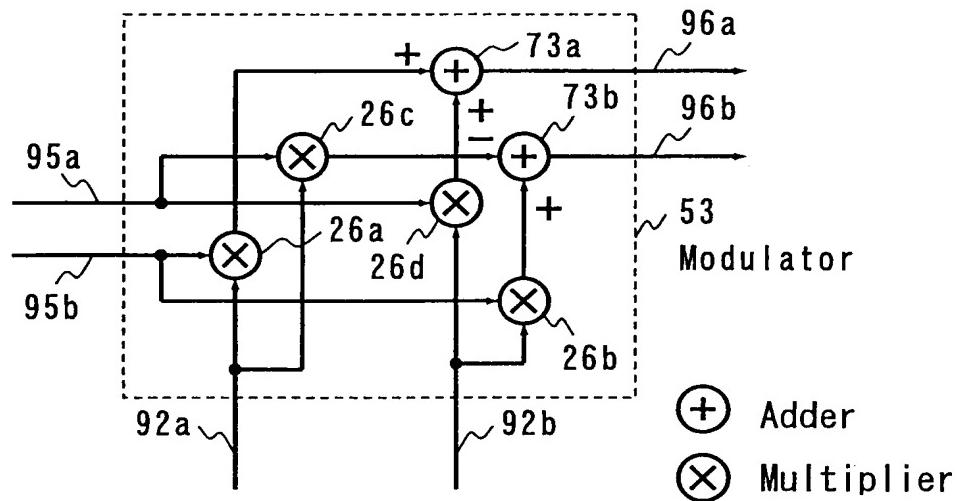
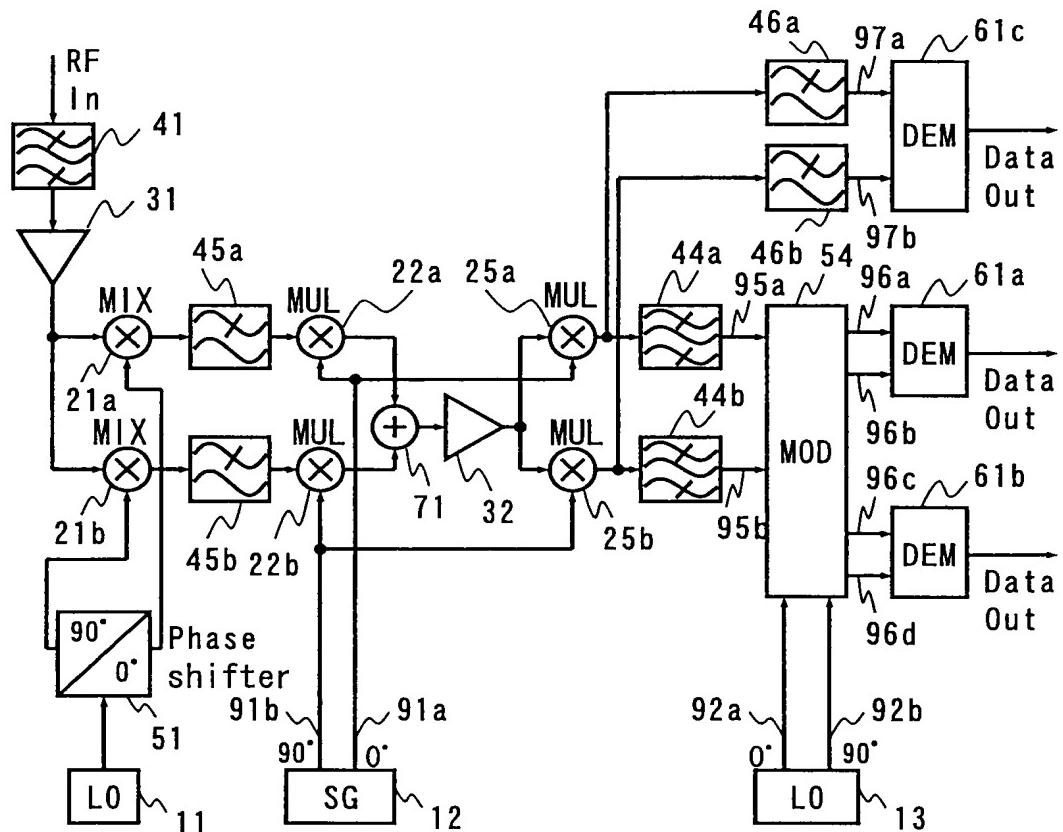


Fig. 2



LO: Local Oscillator  
SG: Signal Generator  
MOD: MODulator  
DEM: DEModulator  
MIX: MIXer  
MUL: MULTIplier

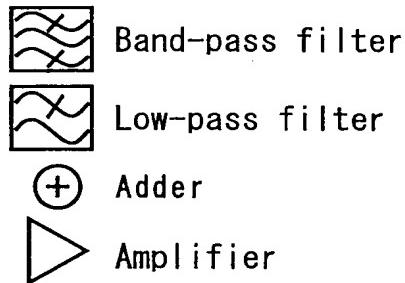


Fig. 5

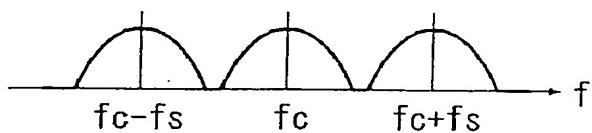


Fig. 6

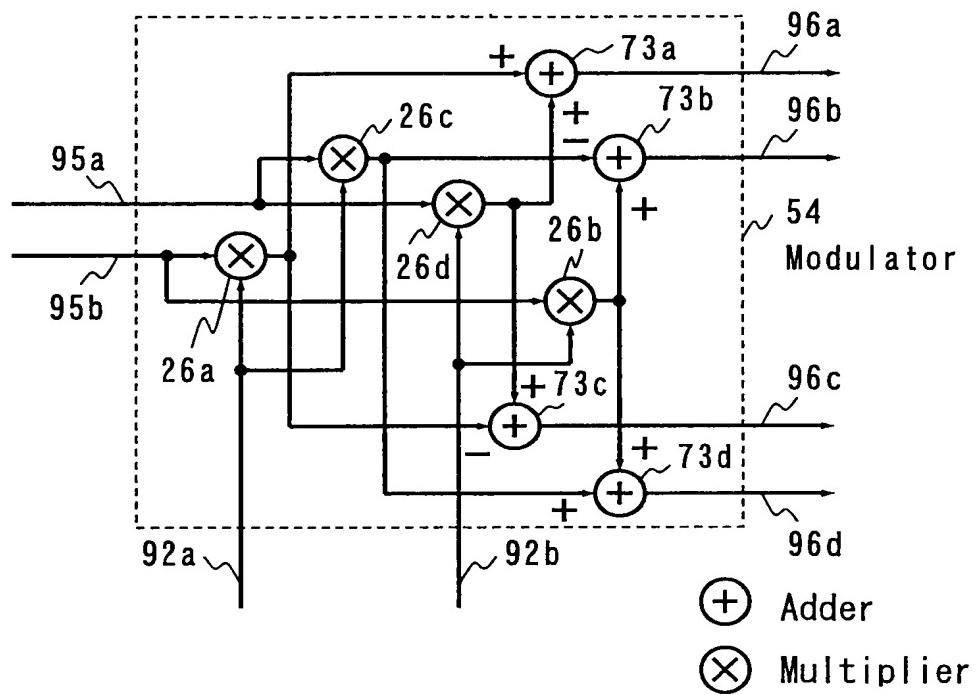
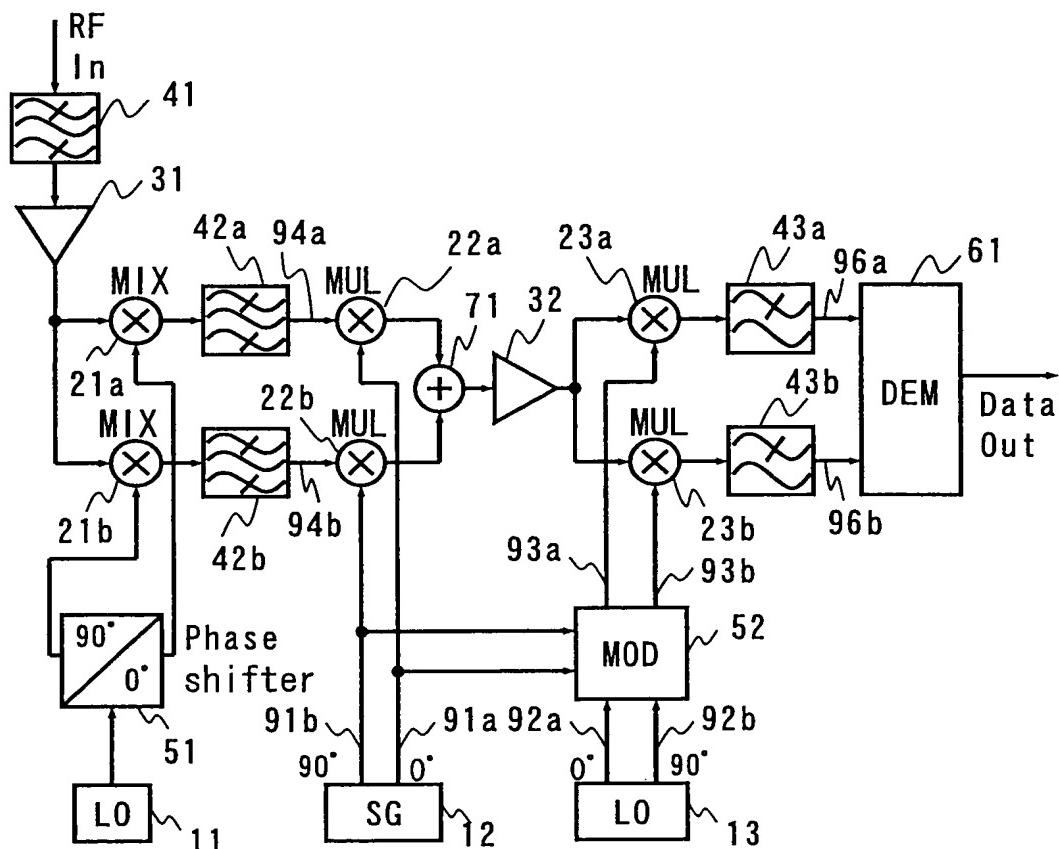


Fig. 7



L0: Local Oscillator  
 SG: Signal Generator  
 MOD: MODulator  
 DEM: DEModulator  
 MIX: MIXer  
 MUL: MULTIplier

|     |                  |
|-----|------------------|
|     | Band-pass filter |
|     | Low-pass filter  |
| (+) | Adder            |
|     | Amplifier        |

Fig. 8

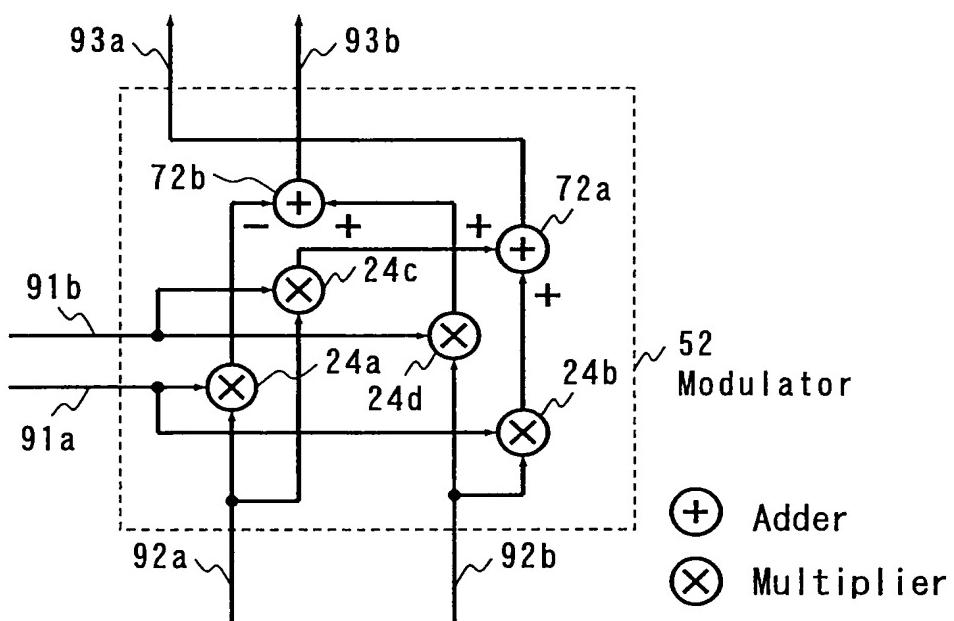
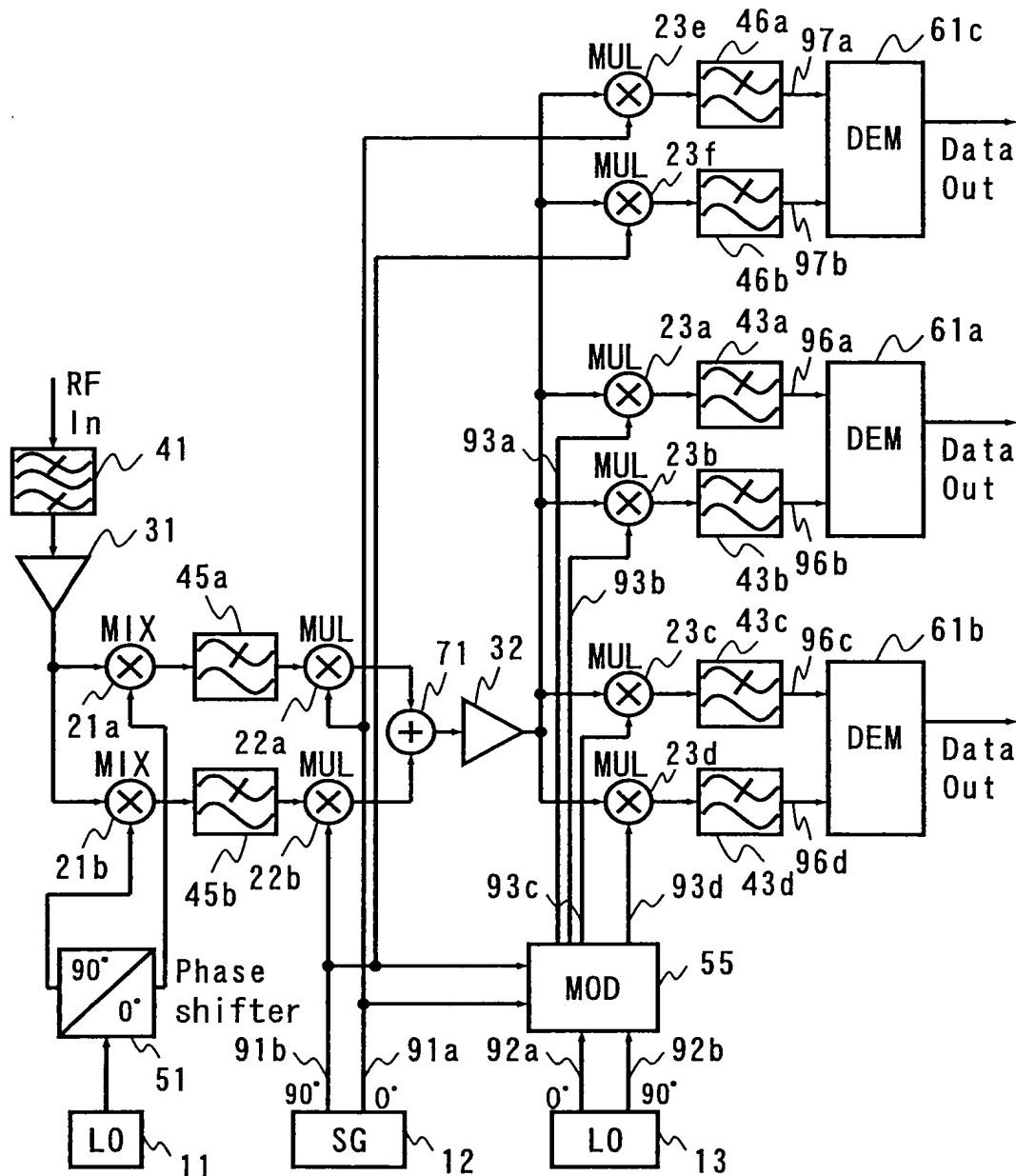


Fig. 9



LO: Local Oscillator  
SG: Signal Generator

MOD: MODulator  
DEM: DEModulator  
MIX: MIXer  
MUL: MULTIplier

Band-pass filter

Low-pass filter

Adder

Amplifier

Fig. 10

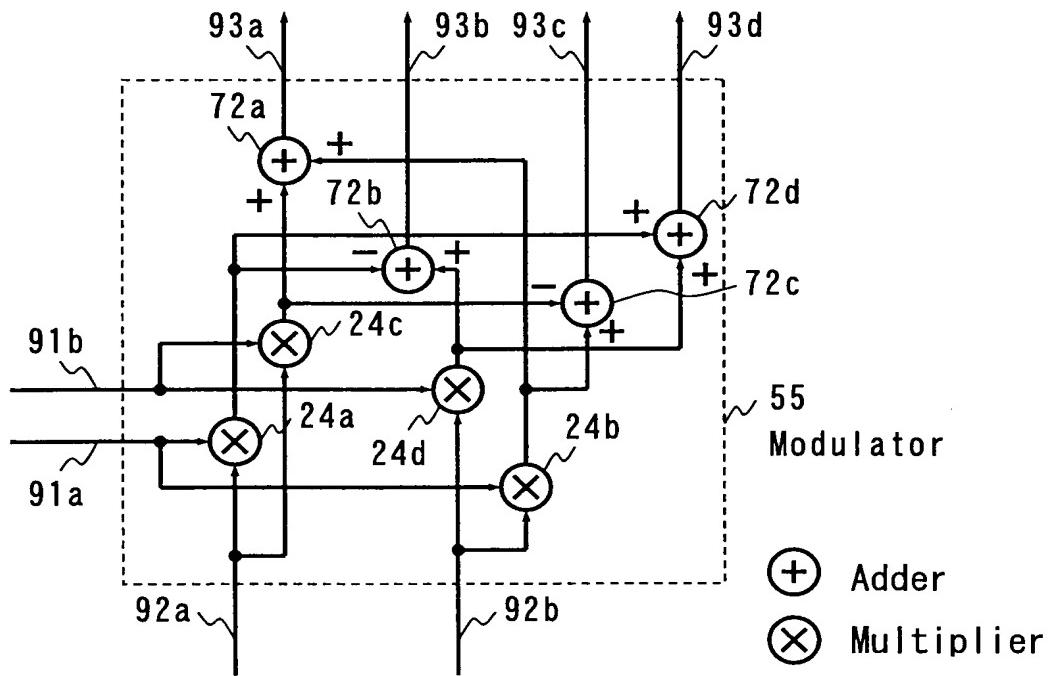
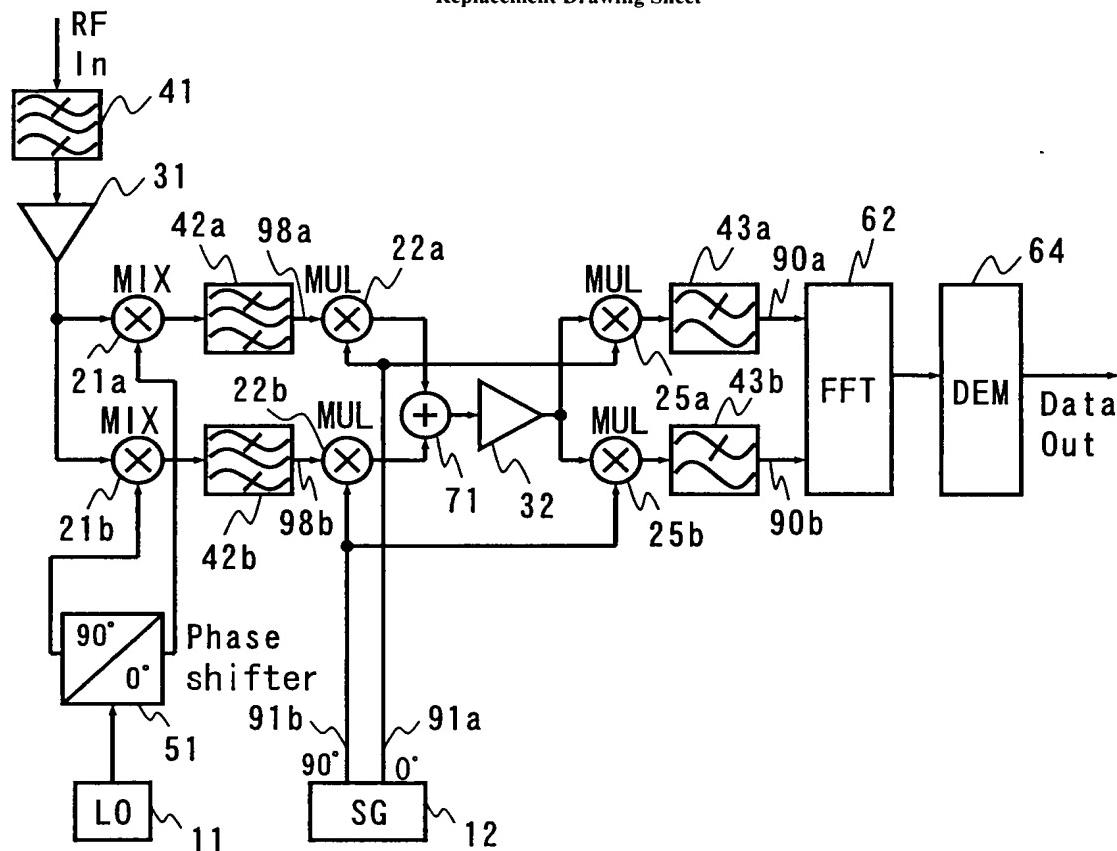


Fig. 11



**LO:** Local Oscillator  
**SG:** Signal Generator  
**DEM:** DEModulator  
**MIX:** MIXer  
**MUL:** MULtiplier  
**FFT:** Fast Fourier Transform

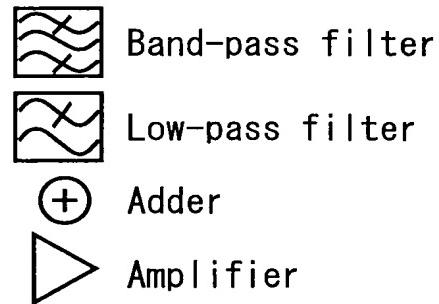


Fig. 12

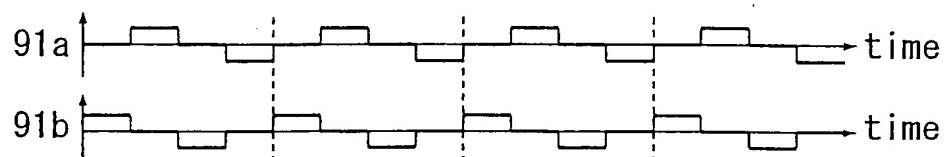
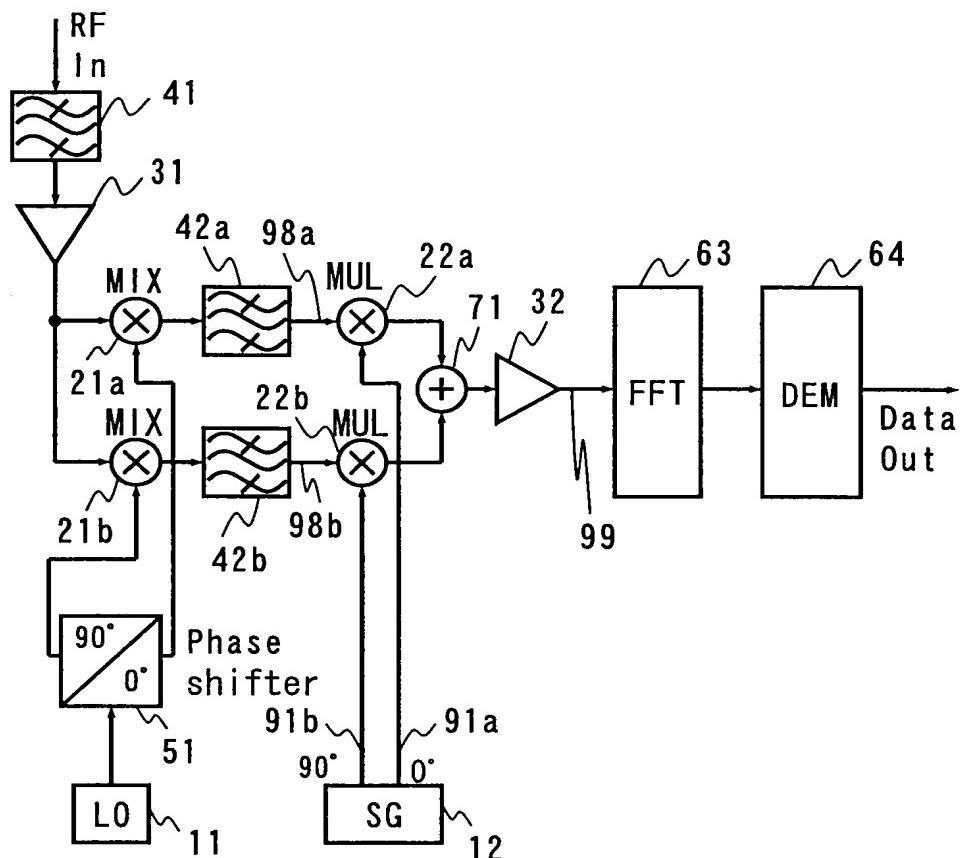


Fig. 13



LO: Local Oscillator

SG: Signal Generator

DEM: DEModulator

MIX: MIXer

MUL: MULTIplier

FFT: Fast Fourier Transform

Band-pass filter

Low-pass filter

Adder

Amplifier

Fig. 14

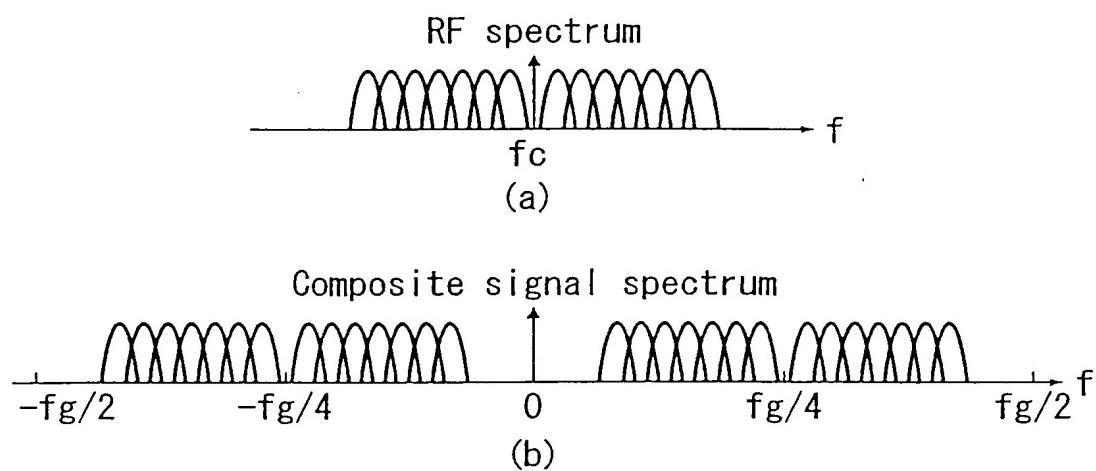
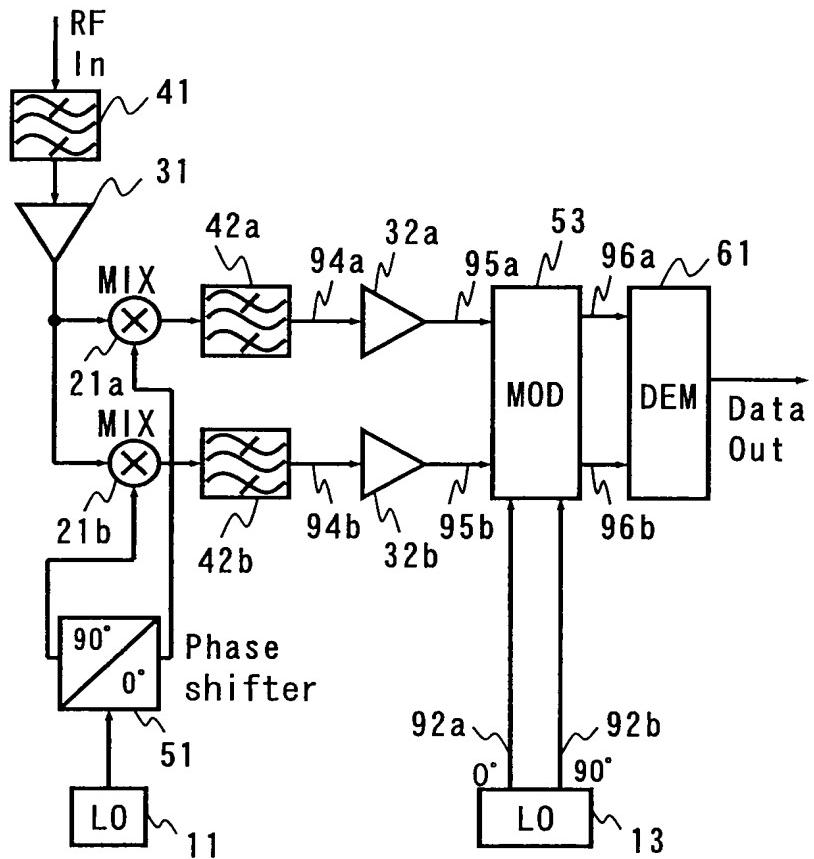


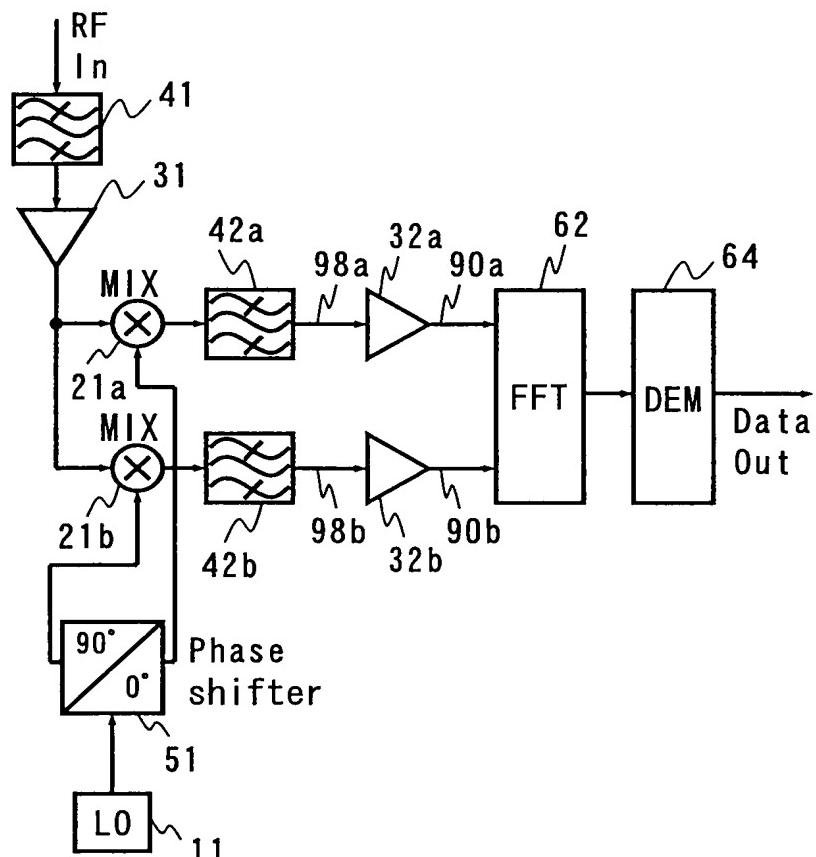
Fig. 15



LO: Local Oscillator  
SG: Signal Generator  
MOD: MODulator  
DEM: DEModulator  
MIX: MIXer

Band-pass filter  
 Amplifier

Fig. 16



L0: Local Oscillator

DEM: DEModulator

MIX: MIXer

FFT: Fast Fourier Transform



Band-pass filter



Amplifier

Fig. 17